

DERWENT-ACC-NO: 1993-051939
DERWENT-WEEK: 199306
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TITLE: Turbine shaft seal - has rotating seal ring with spiral
face grooves of different depths

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PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
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ABSTRACTED-PUB-NO: SU 1719756A

BASIC-ABSTRACT:

The turbine shaft seal consists of an axially-moving seal ring and a rotating seal ring with spiral grooves in its face. At least a proportion of the spiral grooves has a depth which reduces the centre of the seal ring's face. The grooves of constant and reducing depth are located alternately round the ring.

The grooves can be made by ion cutting, using masks applied to the ring's surface, or they can be machines by laser. During operation the spiral grooves increase the gas pressure and produce a high-density seal layer.

ADVANTAGE - More reliable seal. Bul. 10/15.3.92 0/4

TITLE-TERMS: TURBINE SHAFT SEAL ROTATING SEAL RING SPIRAL FACE GROOVE DEPTH

DERWENT-CLASS: Q65

SECONDARY-ACC-NO:

Non-CPI Secondary Accession Numbers: N1993-039578